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## Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

## Listing of Claims:

1. (Previously presented) A primary battery, comprising:

a cathode comprising

an oxide containing an alkali metal and pentavalent bismuth, the alkali metal being lithium or potassium, and

an electrochemically active cathode material different from the oxide; an anode;

a separator between the cathode and the anode; and an alkaline electrolyte.

- 2. (Currently amended) The battery of claim 1, wherein the oxide comprises a material selected from the group consisting of MBiO<sub>3</sub>, M<sub>3</sub>BiO<sub>4</sub>, M<sub>7</sub>BiO<sub>6</sub>, M<sub>4</sub>Bi<sub>2</sub>O<sub>7</sub>, and M<sub>5</sub>Bi<sub>3</sub>O<sub>10</sub>, where M is Li, Na, K, Rb and/or Cs; Li<sub>5</sub>BiO<sub>5</sub>; and Li<sub>6</sub>KBiO<sub>6</sub>; Li<sub>6</sub>RbBiO<sub>3</sub> or K.
- 3. (Original) The battery of claim 1, wherein the oxide comprises an electrically conductive portion.
- 4. (Original) The battery of claim 3, wherein the electrically conductive portion is an electrically conductive surface coating comprising carbon or a metal oxide.
- 5. (Original) The battery of claim 4, wherein the electrically conductive surface coating comprises a material selected from the group consisting of graphite, carbon black, acetylene black, cobalt oxide, cobalt oxyhydroxide, silver oxide, silver nickel oxide, nickel oxyhydroxide, and indium oxide.
- 6. (Original) The battery of claim 1, wherein the anode comprises zinc.

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7. (Original) The battery of claim 1, wherein the electrolyte comprises lithium hydroxide, sodium hydroxide, or potassium hydroxide.

- 8. (Original) The battery of claim 1, wherein the separator is capable of preventing soluble bismuth species from diffusing from the cathode to the anode.
- 9. (Original) The battery of claim 1, wherein the separator is capable of trapping soluble bismuth species.
- 10. (Previously presented) A primary battery, comprising: a cathode comprising

an oxide containing an alkaline earth metal and pentavalent bismuth, and an electrochemically active cathode material different from the oxide; an anode;

- a separator between the cathode and the anode; and an alkaline electrolyte.
- 11. (Original) The battery of claim 10, wherein the alkaline earth metal is selected from the group consisting of magnesium, calcium, strontium, and barium.
- 12. (Previously presented) The battery of claim 10, wherein the oxide comprises a material selected from the group consisting of MgBi<sub>2</sub>O<sub>6</sub>, SrBi<sub>2</sub>O<sub>6</sub>, Sr<sub>2</sub>Bi<sub>2</sub>O<sub>7</sub>, LiSr<sub>3</sub>BiO<sub>6</sub>, NaSr<sub>3</sub>BiO<sub>6</sub>, (Ba,K)BiO<sub>3</sub>, (Sr,K)BiO<sub>3</sub>, Li<sub>2</sub>Ba<sub>5</sub>Bi<sub>2</sub>O<sub>11</sub>, and Ba<sub>2</sub>Bi<sub>2</sub>O<sub>6</sub>.
- 13. (Original) The battery of claim 10, wherein the oxide comprises an electrically conductive portion.
- 14. (Original) The battery of claim 13, wherein the electrically conductive portion is an electrically conductive surface coating comprising carbon or a metal oxide.

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15. (Original) The battery of claim 14, wherein the electrically conductive surface coating comprises a material selected from the group consisting of graphite, carbon black, acetylene black, cobalt oxide, cobalt oxyhydroxide, silver oxide, silver nickel oxide, nickel oxyhydroxide, and indium oxide.

- 16. (Original) The battery of claim 10, wherein the oxide comprises cobalt oxyhydroxide and MgBi<sub>2</sub>O<sub>6</sub>.
- 17. (Original) The battery of claim 10, wherein the anode comprises zinc.
- 18. (Original) The battery of claim 10, wherein the electrolyte comprises lithium hydroxide, sodium hydroxide, or potassium hydroxide.
- 19. (Original) The battery of claim 10, wherein the oxide further comprises an alkali metal.
- 20. (Original) The battery of claim 10, wherein the separator is capable of preventing soluble bismuth species from diffusing from the cathode to the anode.
- 21. (Original) The battery of claim 10, wherein the separator is capable of trapping soluble bismuth species.
- 22. (Currently amended) A primary battery, comprising: a cathode comprising

an oxide containing a metal and pentavalent bismuth, the metal being a main group metal, a lanthanide or a transition metal, other than silver, and

an electrochemically active cathode material different from the oxide; an anode;

a separator between the cathode and the anode; and an alkaline electrolyte.

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23. (Currently Arnended) The battery of claim 22, wherein the <u>transition</u> metal is selected from the group consisting of scandium, vanadium, manganese, iron, cobalt, nickel, copper, silver, zinc, yttrium, zirconium, niobium, molybdenum, ruthenium, palladium, cadmium, tantalum, and tungsten.

- 24. (Currently Amended) The battery of claim 22, wherein the <u>lanthanide</u> metal is selected from the group consisting of lanthanum, cerium, praseodymium, neodymium, samarium, europium, gadolinium, terbium, dysprosium, holmium, erbium, thulium, and ytterbium.
- 25. (Original) The battery of claim 22, wherein the metal is selected from the group consisting of indium, tin, antimony, and lead.
- 26. (Original) The battery of claim 22, wherein the oxide further comprises an alkali metal or an alkaline earth metal.
- 27. (Currently Amended) The battery of claim 22, wherein the oxide comprises a material selected from the group consisting of ZnBi<sub>2</sub>O<sub>6</sub>, Cu<sub>2</sub>Bi<sub>2</sub>O<sub>7</sub>, CdBi<sub>2</sub>O<sub>6</sub>, AgBiO<sub>3</sub>, Ag<sub>25</sub>Bi<sub>3</sub>O<sub>18</sub>, Ba<sub>2</sub>YBiO<sub>6</sub>, Ba<sub>2</sub>LaBiO<sub>6</sub>, Sr<sub>2</sub>NdBiO<sub>6</sub>, Ba<sub>2</sub>InBiO<sub>6</sub>, Ba(Bi,Pb)O<sub>3</sub>, Sr<sub>18</sub>Ru<sub>1.9</sub>Bi<sub>4.1</sub>O<sub>33</sub>, Li<sub>8</sub>PdBi<sub>2</sub>O<sub>10</sub>, and Sr<sub>2</sub>ScBiO<sub>6</sub>.
- 28. (Original) The battery of claim 22, wherein the oxide comprises an electrically conductive portion.
- 29. (Original) The battery of claim 28, wherein the electrically conductive portion is an electrically conductive surface coating comprising carbon or a metal oxide.
- 30. (Original) The battery of claim 29, wherein the electrically conductive surface coating comprises a material selected from the group consisting of graphite, carbon black,

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acetylene black, cobalt oxide, cobalt oxyhydroxide, silver oxide, silver nickel oxide, nickel oxyhydroxide, and indium oxide.

- 31. (Original) The battery of claim 22, wherein the oxide comprises cobalt oxyhydroxide and ZnBi<sub>2</sub>O<sub>6</sub>.
- 32. (Original) The battery of claim 22, wherein the anode comprises zinc.
- 33. (Original) The battery of claim 22, wherein the electrolyte comprises lithium hydroxide, sodium hydroxide, or potassium hydroxide.
- 34. (Original) The battery of claim 22, wherein the separator is capable of preventing soluble bismuth species from diffusing from the cathode to the anode.
- 35. (Original) The battery of claim 22, wherein the separator is capable of trapping soluble bismuth species.
- 36-41. (Cancelled).
- 42. (Currently Amended) The battery of claim 1, wherein the electrochemically active cathode material is selected from the group consisting of manganese dioxide, NiOOH nickel oxyhydroxide, AgO, AgNiO<sub>2</sub>, and AgCoO<sub>2</sub>.
- 43. (Previously presented) The battery of claim 1, wherein the electrochemically active cathode material comprises manganese dioxide.
- 44. (Currently Amended) The battery of claim 1, wherein the electrochemically active cathode material comprises NiOOH nickel oxyhydroxide.

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45. (Currently Amended) The battery of claim 10, wherein the electrochemically active cathode material is selected from the group consisting of manganese dioxide, NiOOH nickel oxyhydroxide, AgO, AgNiO<sub>2</sub>, and AgCoO<sub>2</sub>.

- 46. (Previously presented) The battery of claim 10, wherein the electrochemically active cathode material comprises manganese dioxide.
- 47. (Currently Amended) The battery of claim 10, wherein the electrochemically active cathode material comprises NiOOH nickel oxyhydroxide.
- 48. (Currently Amended) The battery of claim 10, wherein the oxide comprises MgBi<sub>2</sub>O<sub>6</sub>, and the electrochemically active cathode material comprises NiOOH nickel oxyhydroxide.
- 49. (Currently Amended) The battery of claim 22, wherein the electrochemically active cathode material is selected from the group consisting of manganese dioxide, NiOOH nickel oxyhydroxide, AgO, AgNiO<sub>2</sub>, and AgCoO<sub>2</sub>.
- 50. (Previously presented) The battery of claim 22, wherein the electrochemically active cathode material comprises manganese dioxide.
- 51. (Currently Amended) The battery of claim 22, wherein the electrochemically active cathode material comprises NiOOH nickel oxyhydroxide.
- 52. (Cancelled).
- 53. (New) A primary battery, comprising:

a cathode comprising AgBiO<sub>3</sub> and at least 50% by weight of a second cathode active material selected from the group consisting of manganese dioxide and nickel oxyhydroxide;

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an anode;

a separator between the cathode and the anode; and an alkaline electrolyte.

- 54. (New) The battery of claim 53, wherein the AgBiO<sub>3</sub> comprises an electrically conductive portion.
- 55. (New) The battery of claim 54, wherein the electrically conductive portion is an electrically conductive surface coating comprising carbon or a metal oxide.
- 56. (New) The battery of claim 55, wherein the electrically conductive surface coating comprises a material selected from the group consisting of graphite, carbon black, acetylene black, cobalt oxide, cobalt oxyhydroxide, silver oxide, silver nickel oxide, nickel oxyhydroxide, and indium oxide.
- 57. (New) The battery of claim 53, wherein the anode comprises zinc.
- 58. (New) A primary battery, comprising:

a cathode comprising

at least 30% of AgBiO<sub>3</sub> by weight, and

an electrochemically active cathode material different from AgBiO<sub>3</sub>;

an anode;

- a separator between the cathode and the anode; and an alkaline electrolyte.
- 59. (New) The battery of claim 58, wherein the AgBiO<sub>3</sub> comprises an electrically conductive portion.
- 60. (New) The battery of claim 59, wherein the electrically conductive portion is an electrically conductive surface coating comprising carbon or a metal oxide.

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61. (New) The battery of claim 60, wherein the electrically conductive surface coating comprises a material selected from the group consisting of graphite, carbon black, acetylene black, cobalt oxide, cobalt oxyhydroxide, silver oxide, silver nickel oxide, nickel oxyhydroxide, and indium oxide.

- 62. (New) The battery of claim 22, wherein the anode comprises zinc.
- 63. (New) The battery of claim 58, wherein the cathode comprises at least 40% of AgBiO<sub>3</sub> by weight.